

Title (en)

SYSTEM, APPARATUS AND METHOD FOR NON-INVASIVE AVIAN EGG FERTILITY DETECTION

Title (de)

SYSTEM, VORRICHTUNG UND VERFAHREN FÜR NICHTINVASIVE DETEKTION VON GEFLÜGELEIBEFRUCHTUNG

Title (fr)

SYSTÈME, APPAREIL ET PROCÉDÉ DE DÉTECTION NON INVASIVE DE LA FERTILITÉ D'UN OEUF AVIAIRE

Publication

EP 3474661 A4 20200729 (EN)

Application

EP 17819492 A 20170627

Priority

- US 201662355722 P 20160628
- IL 2017050714 W 20170627

Abstract (en)

[origin: WO2018002922A1] A system, egg holding unit and methods are provided for non-invasively determining the fertility of an avian egg. The system comprises: an egg holding unit; at least one transmitter, operative for transmitting electromagnetic waves towards said at least one egg; at least one receiver for receiving a received signal, including at least a portion of said electromagnetic waves after passing through said at least one egg placed within said egg holding unit; a processor adapted to analyze said received signal according to a predetermined fertility determination procedure; and a communication interface for providing a fertility indication with respect to each one of said at least one egg. Preferably, the communication interface is coupled to a display device adapted to show fertilization data using a GUI, to one or more end users.

IPC 8 full level

G01N 33/08 (2006.01); **A01K 43/00** (2006.01); **G01N 21/31** (2006.01); **G01N 22/00** (2006.01)

CPC (source: EA EP KR US)

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Citation (search report)

- [X] US 2015138535 A1 20150521 - WALUKAS JOEL JAMES [US], et al
- [XI] US 2016100557 A1 20160414 - ADAR GAVRIEL [IL], et al
- [A] US 6845253 B1 20050118 - SCHANTZ HANS GREGORY [US]
- [A] US 2015103624 A1 20150416 - THOMPSON ARTHUR [US], et al
- [XI] US 6029080 A 20000222 - REYNNELLS RICHARD D [US], et al
- See references of WO 2018002922A1

Designated contracting state (EPC)

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